40MM Infrared Illuminant Cartridge, M992

- Item Background
- Item Description
- IR Composition Background
- Energetics Info to date
- Environmental Direction
- Plan Forward
- Requested Action

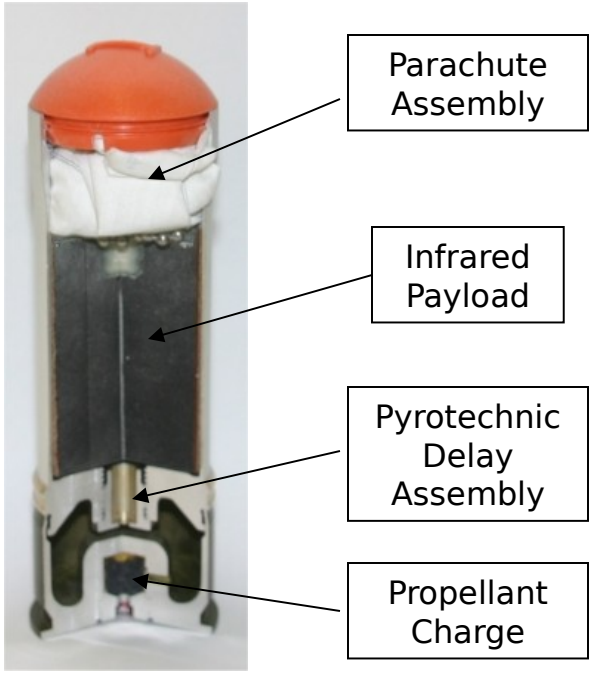
40MM Infrared Illuminant Cartridge, M992
Item Background

- Conditionally Type Classified in 1996
- No procurement due to lack of identification of production funds
- 1,012 cartridges produced and delivered to WARCOM for urgent procurement (June 2006)
- An additional 26,595 cartridges planned for delivery to WARCOM
- 31,495 cartridges planned for delivery to Army
- Full Materiel Release in process

40MM Infrared Illuminant Cartridge, M992 Description

- The 40mm M992 IR cartridge is fired from the M203 Grenade Launcher, and is designed to provide IR illumination in the infrared passband. Its objective is to enhance night operation capabilities of troops equipped with currently fielded night vision equipment while producing minimum visual signature outside of the infrared passband. The 40mm IR illuminant cartridge is similar in design and functional performance to conventional 40mm illuminant cartridges except for the IR capability.

  The projectile has a 4-5 second delay ignition element crimped into the center opening of a metal delay carrier and carries an illuminant payload secured to a parachute assembly. Upon ejection, the illuminant descends to the ground at an estimated rate of 7 fps.



40MM Infrared Illuminant Cartridge, M992
Description (continued)

The M992 is virtually identical to the M583A1 White Star Parachute cartridge with the exception of the IR payload and the ogive color

All common components share form fit and function (incl. propellant, delay, and ignition). Major significant difference is the IR payload and ogive color.

40MM Infrared Illuminant Cartridge, M992 Operational Performance

Deployment Altitude	500-700 feet when fired at 90 degree elevation
Illuminant Payload burntime	40 seconds minimum
Payload Output (Visible passband)	350 candlepower maximum
Payload Output (Infrared passband)	26 Watts per steradian minimum
Infrared Passband	695-1050 nanometers
Final Hazard Classification	1.2G

40MM Infrared Illuminant Cartridge, M992 **Packaging Configuration**

The M992 cartridge is packaged inside paper tubes per M2A1 metal container (ammunition can) 22 round packout. Each over-pack consists of 2 ammunition cans encased in one wooden wire-bound box. M992 packout configuration is identical to all 40mm illuminant cartridges.

M2A1 METAL CONTAINER